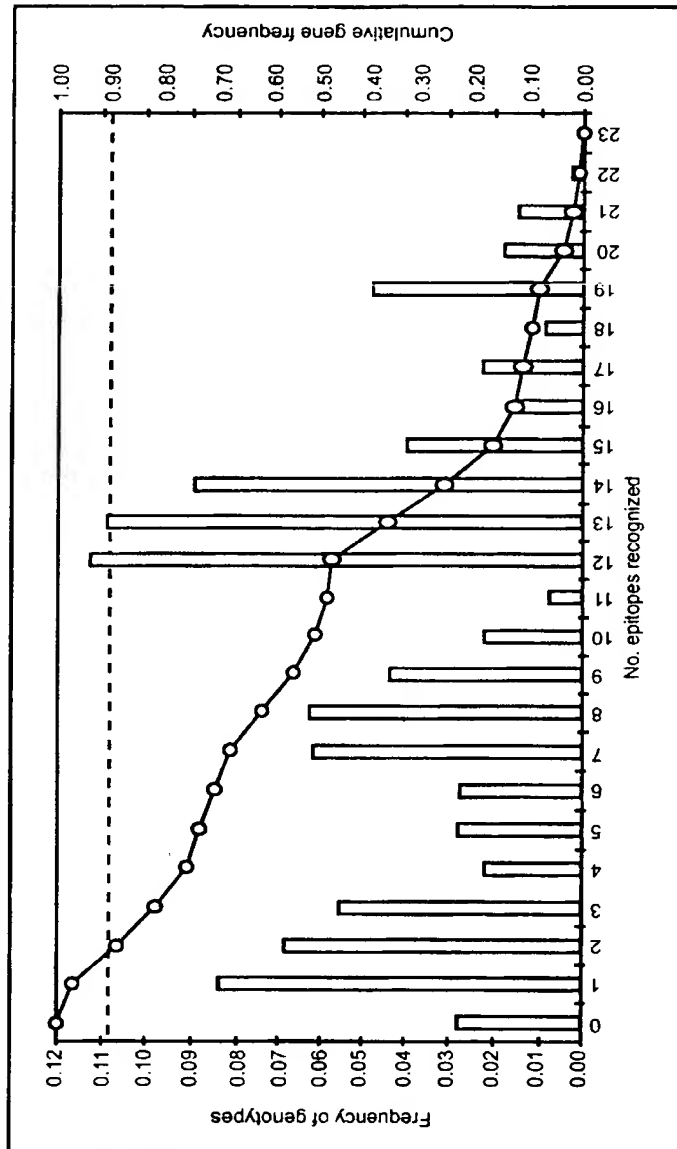




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Monte Carlo population coverage analysis for HCV candidate epitopes



Plot of total frequency of genotypes as a function of the number of HCV candidate epitopes bound by HLA-A and B alleles, in an average population. Genotype values were derived by averaging the gene frequencies in Caucasian, North American, Black, Japanese, Chinese, and Hispanic populations. Also shown is the cumulative frequency of genotypes.

Using currently available HLA typing data, a residual fraction (about 15%) of the genes, in an average population, are unspecified. To arrive at 100% accounting of genes, a fraction of the residual has been added for each hit population cluster in proportion to the relative frequency of the cluster within the HLA specified population. One peptide, 24,0086, was not incorporated into the present analysis.

FIG. 1

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 Inventors: Sette *et al.*; Tel: 202 371-2600
 Title: Inducing Cellular Immune Responses to Hepatitis C
 Virus Using Peptide and Nucleic Acid



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HVC Minigene

CTL Epitopes

Core 43	NS4 1590	NS3 1128	NS5 2611	Core 169	NS1/E2 632	NS4 1765	NS4 1863	Core 132
Kozak	1073.11	1069.62	1090.02	1145.12	1073.13	24.0092	1073.10	1013.10
SigSeq	A3	A2	A1	A2	B7	A3	A24	A3

NS3 1253	NS4 1921	1437	NS5 2641	1466
1283.21	1283.44	35.0106	1283.55	35.0107
DR	DR	DR3	DR	DR3

HTL Epitopes

FIG. 2